

2.5

Postulates and Paragraph Proofs

POINTS, LINES, AND PLANES In geometry, a **postulate**, or **axiom**, is a statement that describes a fundamental relationship between the basic terms of geometry. Postulates are accepted as true. The basic ideas about points, lines, and planes can be stated as postulates.

Postulates

- 2.1** Through any two points, there is exactly one line.
2.2 Through any three points not on the same line, there is exactly one plane.

2.1



2.2



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Postulates

- 2.3** A line contains at least two points.
2.4 A plane contains at least three points not on the same line.
2.5 If two points lie in a plane, then the entire line containing those points lies in that plane.
2.6 If two lines intersect, then their intersection is exactly one point.
2.7 If two planes intersect, then their intersection is a line.

2.5



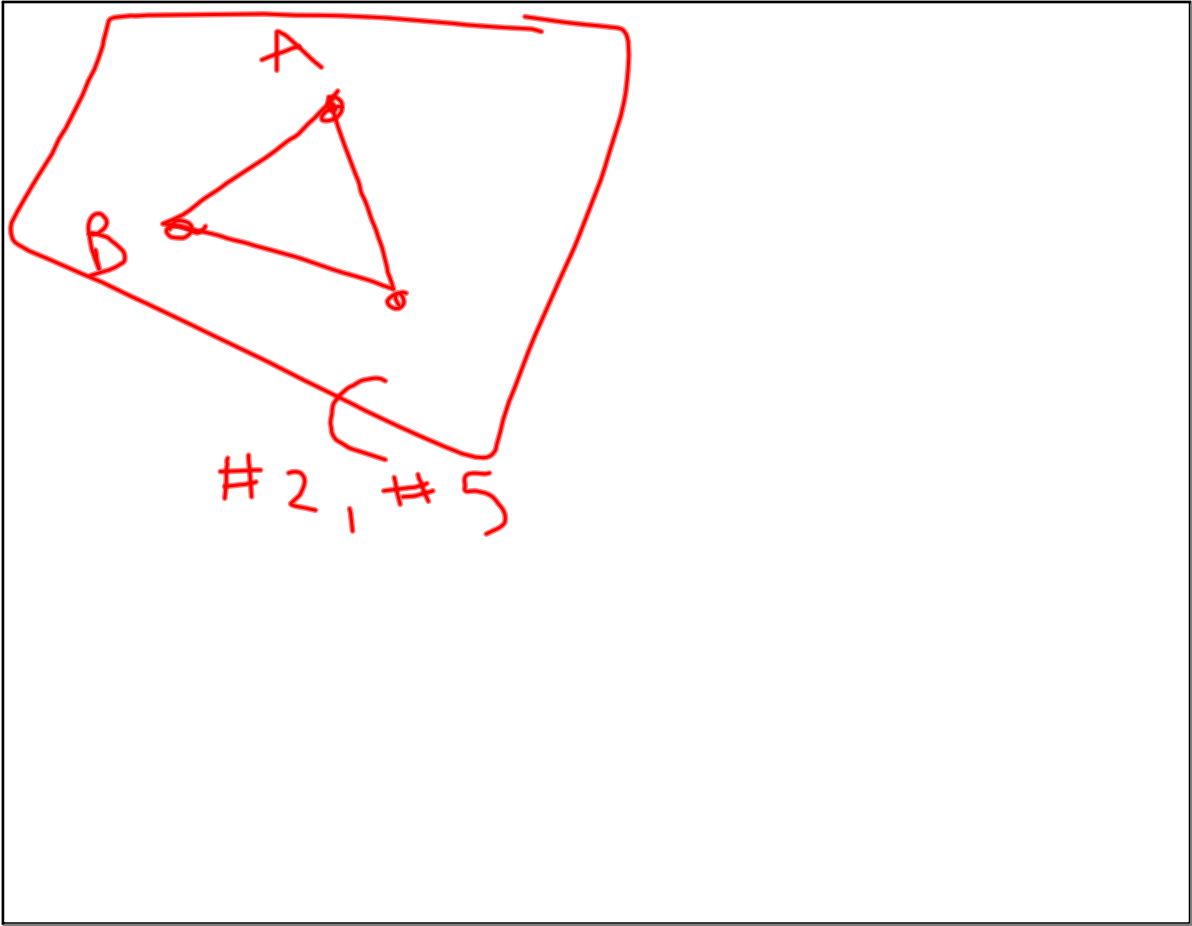
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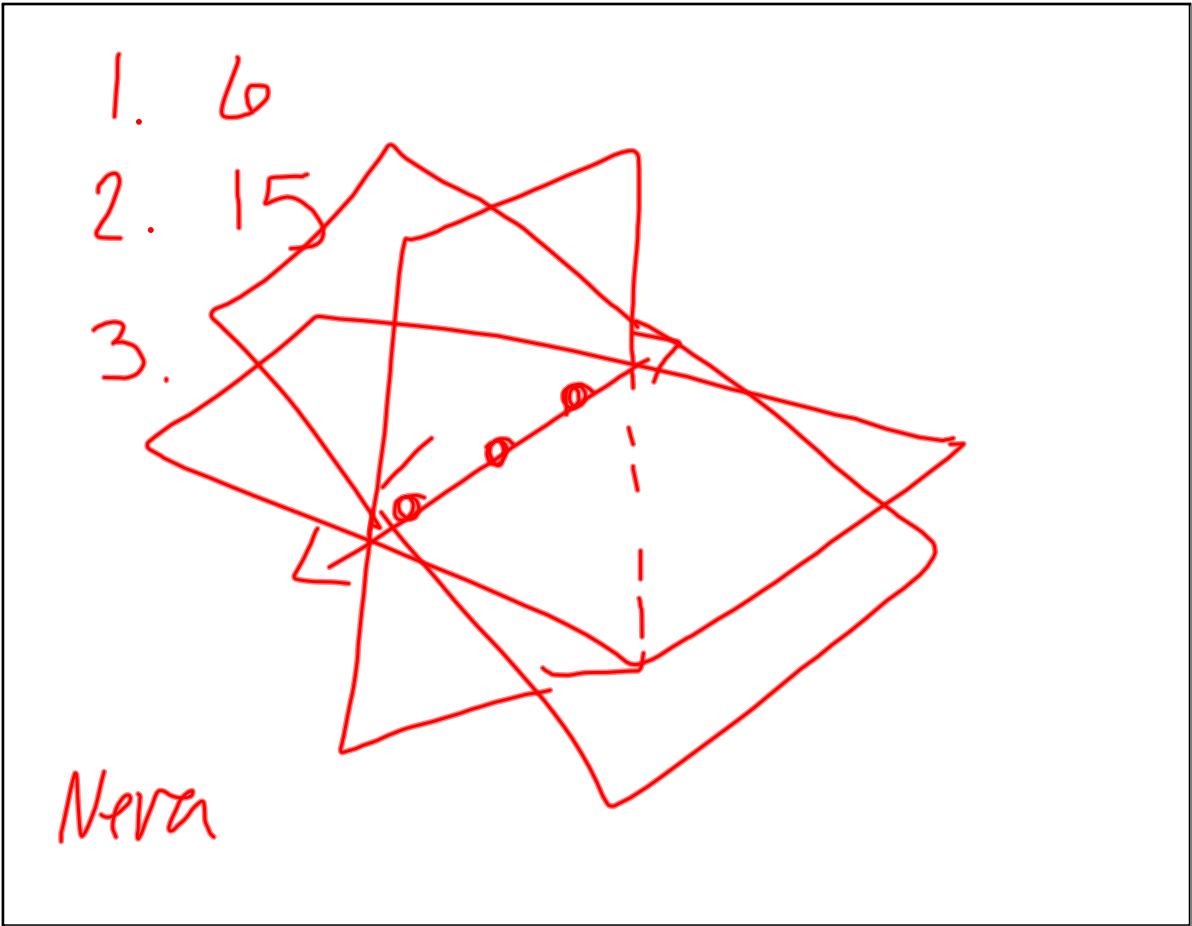
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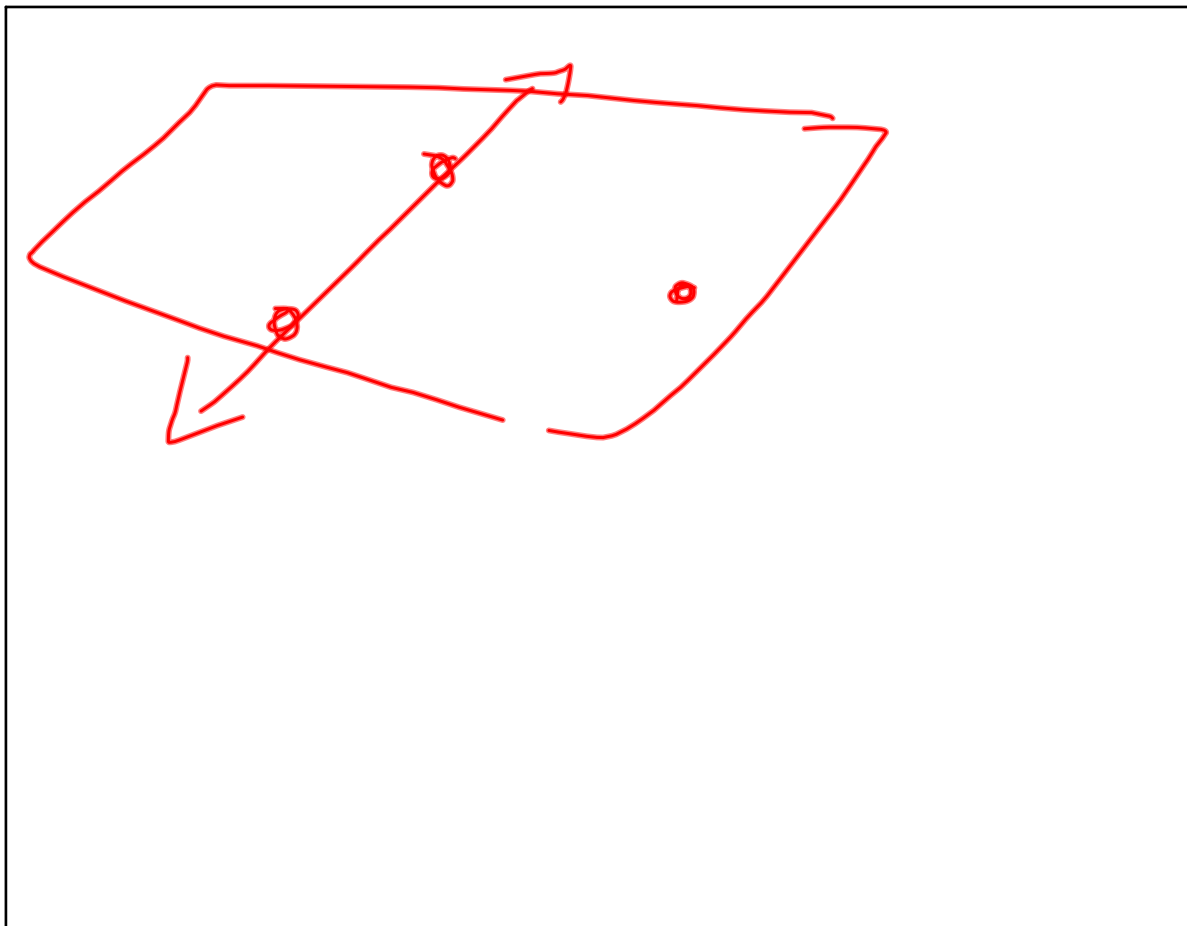
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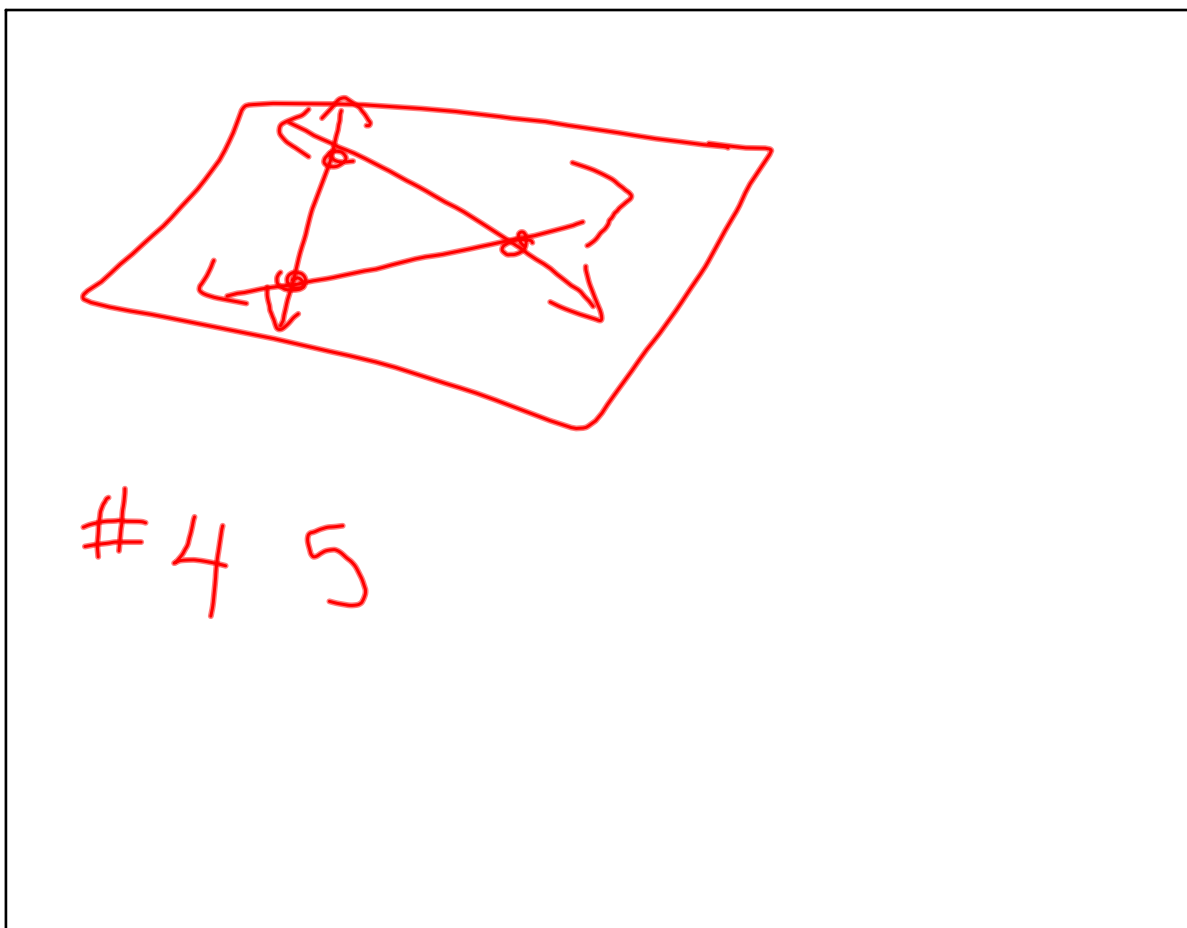
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